

## Claims

What is claimed is:

1. A magneto-optical recording medium having a recording layer and a reflective layer on a substrate characterized in that the recording layer has a layered structure in which a garnet ferrite layer, and any one of a spinel ferrite layer, rutile-type oxide layer or a hematite layer are layered.
2. A magneto-optical recording medium according to Claim 1, wherein said recording layer has tracks on which data are recorded, and said layer structure is formed at least on the tracks.
3. A magneto-optical recording medium according to Claim 2, wherein only garnet ferrite layers are present between said tracks.
4. A magneto-optical recording medium according to Claim 1, wherein said recording layer is located between said substrate and said reflective layer.
5. A magneto-optical recording medium according to Claim 1, wherein said reflective layer is located between said substrate and said recording layer.
6. A magneto-optical recording medium according to Claim 1, wherein the thickness of said garnet ferrite layer is 40 to 400nm, and that of said spinel ferrite layer, said rutile-type oxide layer or said hematite layer is 10 to 100nm.
7. A magneto-optical recording medium according to Claim 1, wherein said recording layer has a multi-layered structure in which a plurality of garnet ferrite layers and a plurality of spinel ferrite layers, rutile-type oxide layers or hematite layers are layered.
8. A magneto-optical recording medium according to Claim 7, wherein the thickness of said recording layer is 40 to 1000nm.

9. A magneto-optical recording medium according to Claim 1, wherein grooves are formed on the surface of at least one of said substrate, said reflective layer or said recording layer.

10. A magneto-optical recording medium according to Claim 1, wherein loads are attached to the surface of at least one of said substrate, said reflective layer or said recording layer.

11. A magneto-optical recording medium according to Claim 1, wherein a transparent layer is formed on the surface of said recording layer or said reflective layer.

~~12. A magneto-optical recording medium according to Claims 11, wherein grooves are formed on the surface of said transparent layer.~~

~~13. Manufacturing method of a magneto-optical recording medium according to Claim 1 characterized by comprising a step of heat treatment at a temperature of 500 to 700 °C after the formation of said recording layer.~~

~~14. Manufacturing method of a magneto-optical recording medium according to Claim 1 characterized by comprising a step of heat treatment at a temperature of 600 to 630 °C after the formation of said recording layer.~~

~~15. A magneto-optical recording and playback device to record and playback data using a magneto-optical recording medium, characterized in that the wavelength of the light for recording data in said magneto-optical recording medium is different from the wavelength of the light for reading data from said magneto-optical recording medium.~~

~~16. A magneto-optical recording and playback device to record and playback data according to Claim 15 characterized in that said magneto-optical recording medium has a recording layer which comprises a garnet ferrite layer.~~

~~17. A magneto-optical recording and playback device according~~

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18. A magneto-optical recording and playback device according to Claim 15, wherein said light for recording and said light for reading are provided by one light source.

1.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$ .  
 2.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a bounded sequence for each  $x \in X$ .  
 3.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a convergent sequence for each  $x \in X$ .  
 4.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a Cauchy sequence for each  $x \in X$ .  
 5.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a uniformly Cauchy sequence for each  $x \in X$ .  
 6.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a uniformly convergent sequence for each  $x \in X$ .  
 7.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a uniformly bounded sequence for each  $x \in X$ .  
 8.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a uniformly convergent sequence for each  $x \in X$ .  
 9.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a uniformly bounded sequence for each  $x \in X$ .  
 10.  $\{f_n\}$  is a sequence of functions in  $C(X)$  such that  $\|f_n\| \leq 1$  for all  $n$  and  $\{f_n(x)\}$  is a uniformly convergent sequence for each  $x \in X$ .